

Title (en)
Electrical double switch mechanism, with a quick connection

Title (de)
Elektrischer Doppelschaltermechanismus mit einer Schnellverbindung

Title (fr)
Mécanisme de commutation électrique double, doté d'un dispositif de connexion rapide

Publication
EP 2107582 A3 20111116 (EN)

Application
EP 09380056 A 20090318

Priority
ES 200800653 U 20080402

Abstract (en)
[origin: EP2107582A2] Four knife contacts -4- and -4a- are represented, together with the moving contacts -8-, actuated by swinging elements -11-, situated above the closure cover -12- of the base -1-, characterized in that it has four connection keys -2-, two by two, situated on the sides opposite the base -1-, V-shaped, its lateral cylindrical pins -17- resting axially on semi-cylindrical seats -18- of the base -1- on the side of housings -3-. Thus, each connection key -2- can swing from the horizontal position prior to placement until the vertical starting position of the connection of the wire conductor -19-, said key -2- being in this vertical position until the bottom of a cylindrical hollow -20- of the connection key -2-. The key -2- has the end of its lower face -22- in a fork shape, which delimits an upper aperture -23- wherein the front face of the corresponding knife contact -4- and -4a- is situated, a face provided with an aperture -4b-. Additionally, the key -22- has two buffers, one stub -24- inside a slot -25- of the base -1- and another -26-, below stub -24-, located outside of the edge of the base -1-. Said connection key -2- is situated on the lower part of the V of the base -1-, and has a stub -27-, resting against a spring -28- and positioned by means of a clipping action. The base -1- has four teeth -13-, two by two, which fit into slots -14- in the cover -12-, base and cover remaining held shut and the mechanism closed.

IPC 8 full level
H01H 23/12 (2006.01); **H01H 1/58** (2006.01); **H01R 4/24** (2006.01)

CPC (source: EP)
H01H 1/585 (2013.01); **H01H 23/12** (2013.01)

Citation (search report)
• [Y] DE 10238852 B3 20040129 - SCHMERSAL K A GMBH & CO [DE]
• [Y] FR 2899023 A1 20070928 - SIMON SA SOC DE DROIT ESPAGNOL [ES]
• [Y] WO 2007025745 A1 20070308 - PHOENIX CONTACT GMBH & CO [DE], et al

Cited by
RU2636392C2; ES2913374A1; DE102016109364A1; EP3246991A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2107582 A2 20091007; EP 2107582 A3 20111116; CN 101552149 A 20091007; ES 1067708 U 20080616; ES 1067708 Y 20080916; MA 30854 B1 20091102; RU 2009111557 A 20101010; RU 2516230 C2 20140520

DOCDB simple family (application)
EP 09380056 A 20090318; CN 200910133261 A 20090401; ES 200800653 U 20080402; MA 31748 A 20090401; RU 2009111557 A 20090331